USGS science for a changing world

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M 7.3, LOYALTY ISLANDS

Origin Time: Wed 2008-04-09 12:46:12 UTC
Location: 20.09˚S 168.85˚E Depth: 35 km

PAGER
Version 3
Created: 2 days, 20 hrs after earthquake

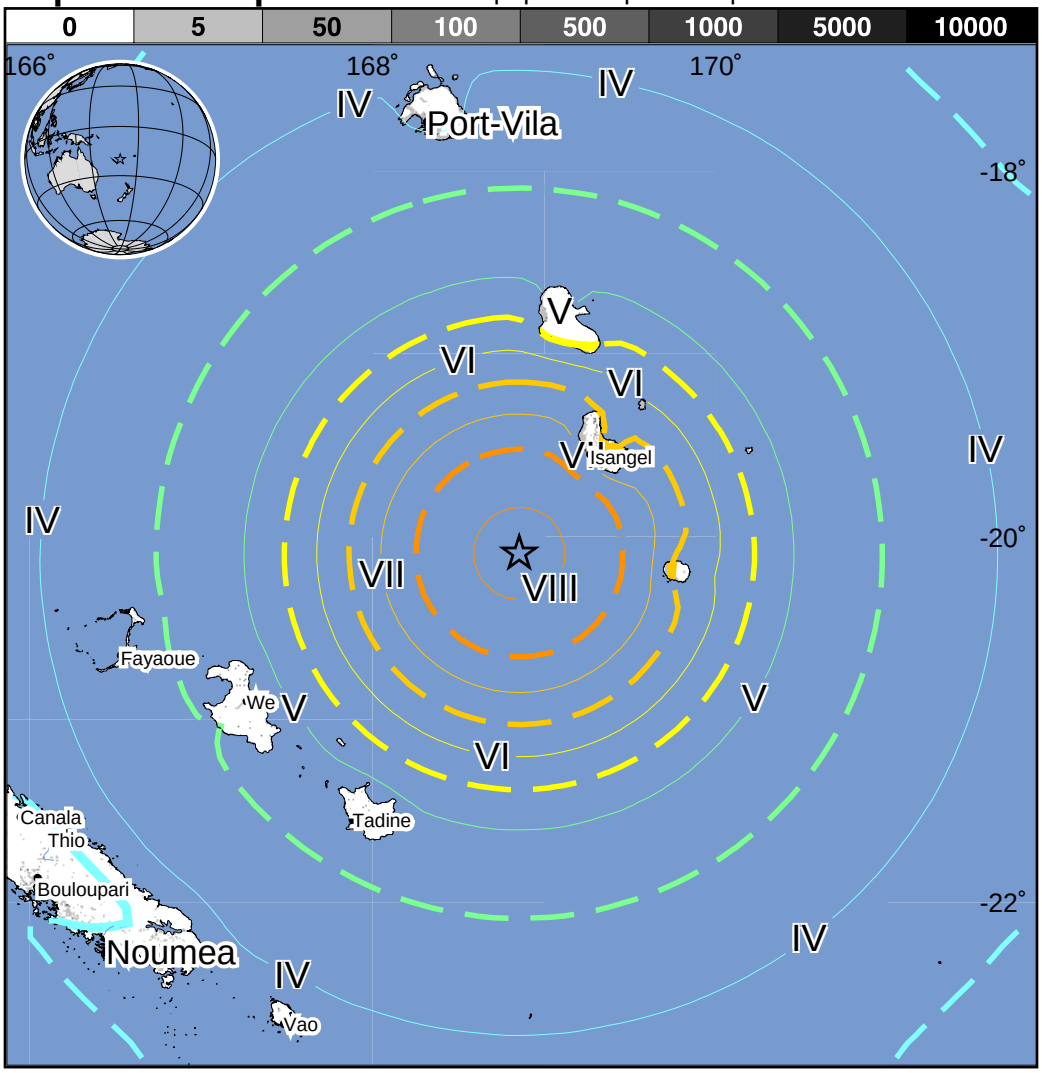
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		- -*	96k*	81k	25k	17k	9k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	none	none	none	V. Light	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landscan 2005



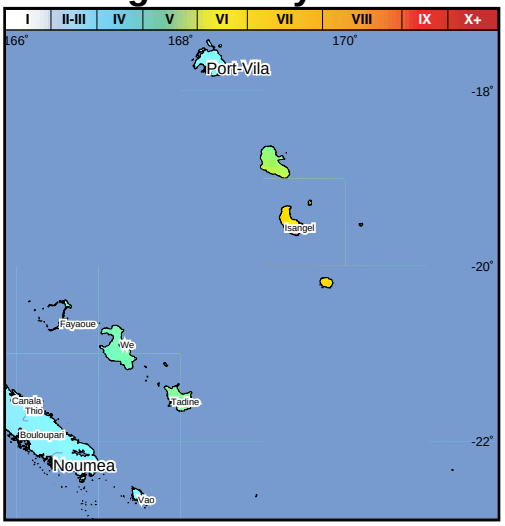
Selected City Exposure

MMI	City	Population
VI	**Isangel**	**1k**
V	**We**	**10k**
V	**Tadine**	**7k**
IV	**Fayaoue**	**4k**
IV	**Port-Vila**	**35k**
IV	**Vao**	**1k**
IV	Mont-Dore	24k
IV	Dumbea	19k
III	**Noumea**	**93k**
III	Paita	12k
III	**Canala**	**3k**

bold cities appear on map (k = x1000)

Shaking Intensity

MMI



Users should consider the preliminary nature of this information and check for updates as additional data becomes available. Population exposure estimates are NOT a direct estimate of earthquake damage; comparable shaking will result in significantly lower losses in regions with well built structures than in regions with vulnerable structures. Overall, structures in this region are vulnerable to earthquake shaking, though some resistant structures exist. A magnitude 7.4 earthquake struck the Vanuatu region on November 26, 1999 (UTC), with estimated population exposures of 11,000 at intensity VIII and 36,000 at intensity VII, resulting in 10 deaths. Recent earthquakes in this area have also triggered landslide hazards that have contributed to losses.

This information was automatically generated and has not been reviewed by a seismologist.